



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 4-5

Issued: 5 Jan 2022 / 0700L (1200Z)

Valid: 6 Jan 2022 / 1649 – 1847L (2149 – 2347Z)



Forecast Discussion: A wave will push north over the Space Coast today, increasing cloud coverage and rain chances. The unsettled weather is pulled away early Thursday as the low pressure system moves north along the Atlantic Coast. The primary weather concern for a Thursday launch attempt is the Cumulus Cloud Rule.

On Friday, high pressure will build into the area behind the front, creating gusty northerly winds at the Spaceport. The primary weather concerns for a Friday attempt remain the Cumulus Cloud Rule with the addition of Liftoff Winds.

Launch Day	Probability of Violating Weather Constraints						
	20%	Primary Concerns: Cumulus Cloud Rule					
	Weather Conditions					Additional Risk Criteria	
	Weather/Visibility: None / 7 miles	Clouds				Upper-Level Wind Shear:	Low
		Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
24-Hour Delay	Temp/Humidity: 72°F / 66%	Cumulus	Few	3,000	8,000	Solar Activity:	Low
	Liftoff Winds (200'): 330° 8 - 12 mph	Cirrostratus	Scattered	25,000	28,000		
	Probability of Violating Weather Constraints						
	30%	Primary Concerns: Cumulus Cloud Rule, Liftoff Winds					
	Weather Conditions					Additional Risk Criteria	
	Weather/Visibility: None / 7 miles	Clouds				Upper-Level Wind Shear:	Low
		Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather:	Low
	Temp/Humidity: 66°F / 55%	Cumulus	Few	3,000	8,000	Solar Activity:	Low
	Liftoff Winds (200'): 010° 15 - 20 mph	Altostratus	Few	12,000	15,000		
Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.							
Next Forecast Will Be Issued		As Required					